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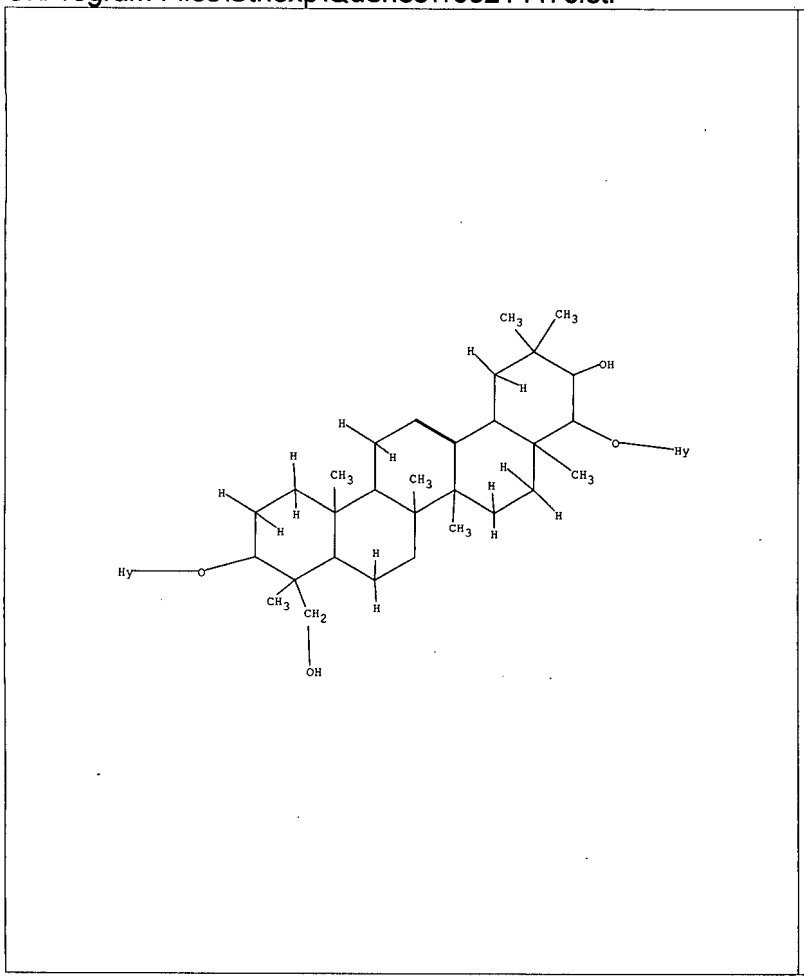

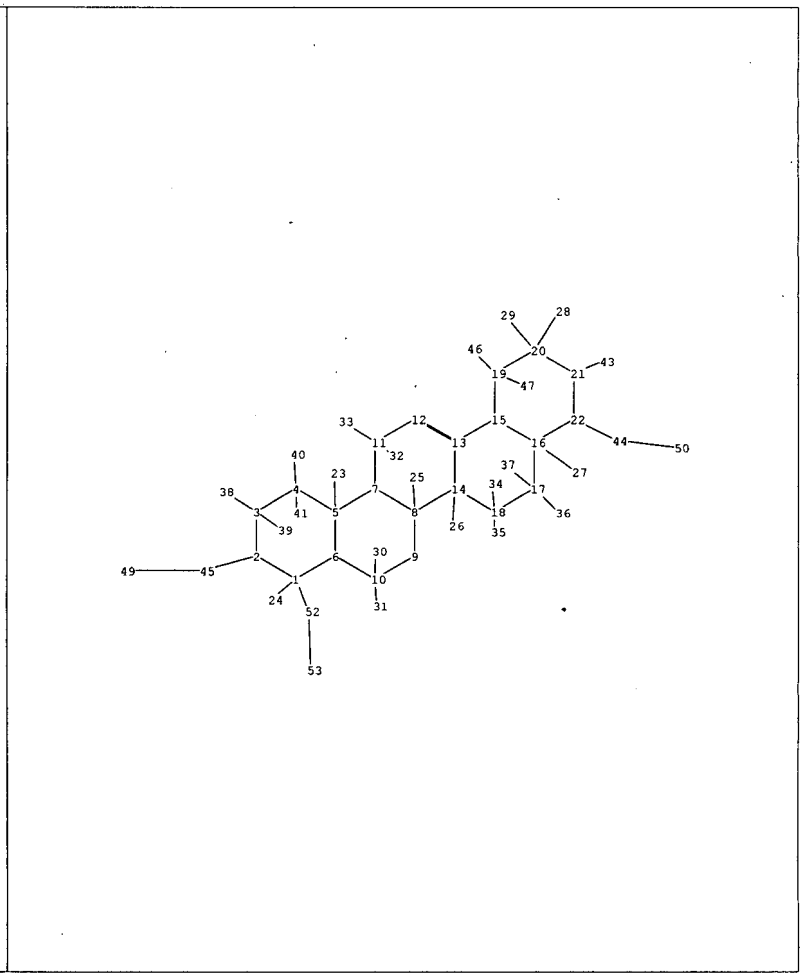

chain nodes :
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 43 44 45 46 47 49 50 52 53
ring nodes :
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chain bonds :
1-24 1-52 2-45 3-38 3-39 4-40 4-41 5-23 8-25 10-30 10-31 11-32 11-33 14-26 16-27 17-36 17-37 18-34 18-35 19-46 19-47 20-28 20-29 21-43 22-44 44-50 45-49 52-53
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12 12-13 13-14 13-15 14-18 15-16 15-19 16-17 16-22 17-18 19-20 20-21 21-22
exact/norm bonds :
1-2 1-6 2-3 2-45 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12 12-13 13-14 13-15 14-18 15-16 15-19 16-17 16-22 17-18 19-20 20-21 21-22 21-43 22-44 44-50 45-49
exact bonds :
1-24 1-52 3-38 3-39 4-40 4-41 5-23 8-25 10-30 10-31 11-32 11-33 14-26 16-27 17-36 17-37 18-34 18-35 19-46 19-47 20-28 20-29 52-53

G1:H,OH

G2:H,Hy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 49:CLASS 50:CLASS 52:CLASS 53:CLASS

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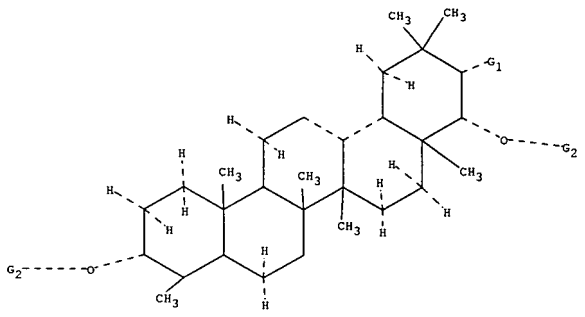

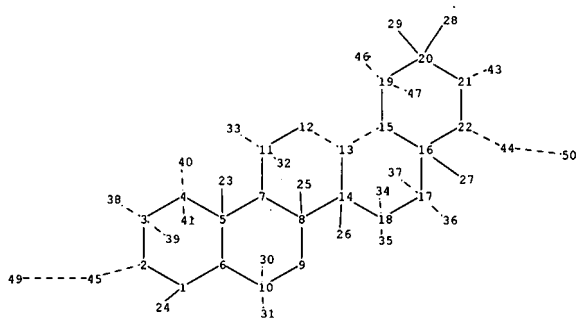

chain nodes :
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 43 44 45 46 47 49 50
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
chain bonds :
1-24 2-45 3-38 3-39 4-40 4-41 5-23 8-25 10-30 10-31 11-32 11-33 14-26 16-27 17-36 17-37 18-34 18-35 19-46 19-47 20-28 20-29 21-43 22-44 44-50 45-49
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12 12-13 13-14 13-15 14-18 15-16 15-19 16-17 16-22 17-18 19-20 20-21 21-22
exact/norm bonds :
1-2 1-6 2-3 2-45 3-4 3-38 3-39 4-5 4-40 4-41 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 10-30 10-31 11-12 11-32 11-33 12-13 13-14 13-15 14-18 15-16 15-19 16-17 16-22 17-18 17-36 17-37 18-34 18-35 19-20 19-46 19-47 20-21 21-22 21-43 22-44 44-50 45-49
exact bonds :
1-24 5-23 8-25 14-26 16-27 20-28 20-29

G1:H,OH

G2:H,Hy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 49:CLASS 50:CLASS

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L1              STRUCTURE UPLOADED
L2           14 S L1 SSS SAM
L3              STRUCTURE UPLOADED
L4            2 S L3 SSS SAM
L5           32 S L3 FULL
L6              STRUCTURE UPLOADED
L7            2 S L6 FULL

     FILE 'CAPLUS' ENTERED AT 09:08:10 ON 02 APR 2007
L8           75 S L5
L9           15 S L7

     FILE 'REGISTRY' ENTERED AT 09:11:54 ON 02 APR 2007
L10             STRUCTURE UPLOADED
L11           2 S L10 SSS SAM
L12          32 S L10 FULL
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NEWS 4	DEC 18	CA/CAplus patent kind codes updated
NEWS 5	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 6	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 7	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 8	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 9	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 10	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 11	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 13	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 14	JAN 29	PHAR reloaded with new search and display fields
NEWS 15	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 17	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 18	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 19	FEB 26	MEDLINE reloaded with enhancements
NEWS 20	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 21	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 22	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 23	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 24	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 25	MAR 16	CASREACT coverage extended
NEWS 26	MAR 20	MARPAT now updated daily
NEWS 27	MAR 22	LWPI reloaded
NEWS 28	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 29	MAR 30	INPADOCDB will replace INPADOC on STN

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:02:30 ON 02 APR 2007

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 09:02:47 ON 02 APR 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 APR 2007 HIGHEST RN 928822-97-3
DICTIONARY FILE UPDATES: 1 APR 2007 HIGHEST RN 928822-97-3

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
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L1 STRUCTURE UPLOADED

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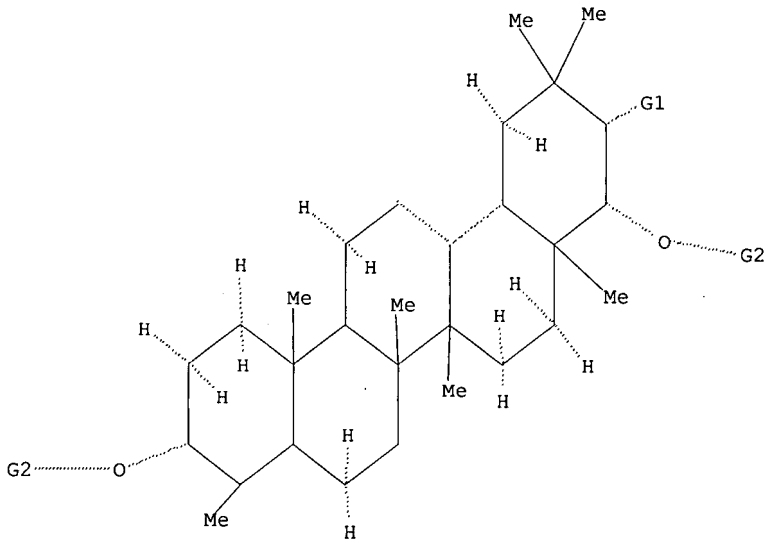
L1 STR



G1 H,OH
G2 H,Hy

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 1750 TO ITERATE

100.0% PROCESSED 1750 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

McIntosh

10/521,447

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 32491 TO 37509
PROJECTED ANSWERS: 56 TO 504

L2 14 SEA SSS SAM L1

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Uploading C:\Program Files\Stnexp\Queries\10521447a.str

L3 STRUCTURE UPLOADED

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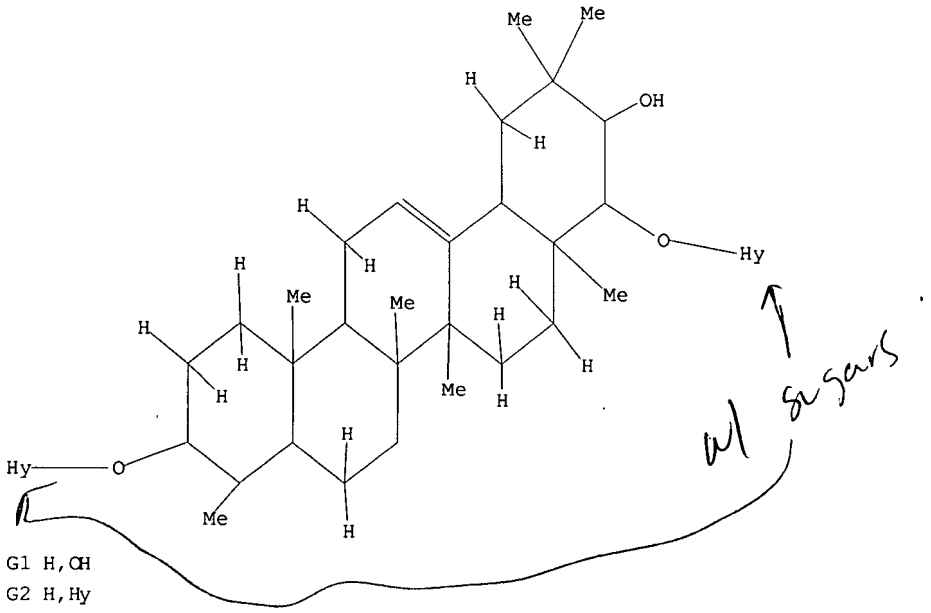
L3 HAS NO ANSWERS
L3 STR



Structure attributes must be viewed using STN Express query preparation.

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100.0% PROCESSED 682 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 12074 TO 15206
PROJECTED ANSWERS: 2 TO 124

L4 2 SEA SSS SAM L3

=> s l3 full
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FULL SCREEN SEARCH COMPLETED - 13075 TO ITERATE

100.0% PROCESSED 13075 ITERATIONS 32 ANSWERS
SEARCH TIME: 00.00.01

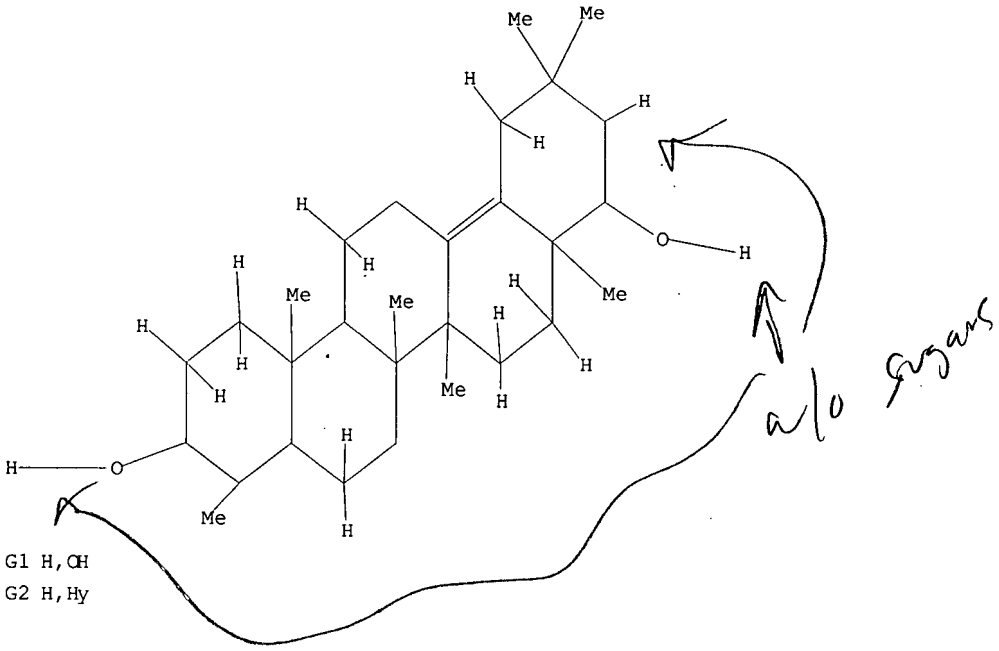
L5 32 SEA SSS FUL L3

=>
Uploading C:\Program Files\Stnexp\Queries\10521447b.str

McIntosh

L6 STRUCTURE UPLOADED

=> d l6
L6 HAS NO ANSWERS
L6 STR



G1 H,OH
G2 H,Hy

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 33824 TO ITERATE

100.0% PROCESSED 33824 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L7 2 SEA SSS FUL L6

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	347.35	347.56

FILE 'CAPLUS' ENTERED AT 09:08:10 ON 02 APR 2007
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FILE COVERS 1907 - 2 Apr 2007 VOL 146 ISS 15
FILE LAST UPDATED: 1 Apr 2007 (20070401/ED)

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http://www.cas.org/infopolicy.html

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=> s l5
L8          75 L5

=> s l7
L9          15 L7

=> d bib bas hitstr 1-15 l9
'BAS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
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to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):bib

L9   ANSWER 1 OF 15  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   2001:519341  CAPLUS
```

DN 135:91861
TI Method of preparing and using isoflavones
IN Empie, Mark; Gugger, Eric
PA Archer Daniels Midland Co., USA
SO U.S., 8 pp., Cont.-in-part of U.S. 6,033,714.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6261565	B1	20010717	US 1998-162038	19980928
	US 5702752	A	19971230	US 1996-614545	19960313
	IL 130611	A	20010430	IL 1997-130611	19970310
	US 5792503	A	19980811	US 1997-868629	19970604
	US 6033714	A	20000307	US 1998-35588	19980305
	AU 9887879	A	19990422	AU 1998-87879	19981001
	AU 748832	B2	20020613		
	ZA 9808962	A	19990913	ZA 1998-8962	19981001
	NZ 332131	A	20010629	NZ 1998-332131	19981001
	CA 2249501	C	20030114	CA 1998-2249501	19981001
	EP 906761	A2	19990407	EP 1998-308060	19981002
	EP 906761	A3	19990519		
	EP 906761	B1	20040714		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 11221048	A	19990817	JP 1998-296187	19981002
	MX 9808146	A	20001031	MX 1998-8146	19981002
	AT 270894	T	20040715	AT 1998-308060	19981002
	EP 1466609	A1	20041013	EP 2004-15530	19981002
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	PT 906761	T	20041130	PT 1998-308060	19981002
	ES 2224337	T3	20050301	ES 1998-308060	19981002
	TW 241893	B	20051021	TW 1998-87116374	19990114
	HK 1016879	A1	20050422	HK 1999-101886	19990427
	US 6391308	B1	20020521	US 2000-615239	20000713
	US 6391309	B1	20020521	US 2000-615240	20000713
	US 6391310	B1	20020521	US 2000-616205	20000713
	US 6395279	B1	20020528	US 2000-616150	20000713
	US 6399072	B1	20020604	US 2000-615152	20000713
	US 2002168433	A1	20021114	US 2002-136103	20020501
	US 2002187211	A1	20021212	US 2002-136158	20020501
	US 6509381	B2	20030121		
	US 2003003168	A1	20030102	US 2002-137490	20020501
	US 6900240	B2	20050531		
	US 6518319	B1	20030211	US 2002-136150	20020501
	US 2003064938	A1	20030403	US 2002-136079	20020501
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	US 1997-868629	A2	19970604		
	US 1997-60549P	P	19971002		
	US 1998-35588	A2	19980305		
	IL 1997-120409	A3	19970310		
	US 1998-162038	A	19980928		
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	EP 1998-308060	A3	19981002		
	US 2000-615152	A3	20000713		
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	US 2000-615240	A3	20000713		
	US 2000-616150	A3	20000713		
	US 2000-616205	A3	20000713		

RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1999:241997 CAPLUS
DN 130:287063
TI Method of preparing and using phytochemicals
IN Empie, Mark; Gugger, Eric
PA Archer Daniels Midland Company, USA
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 906761	A2	19990407	EP 1998-308060	19981002
	EP 906761	A3	19990519		
	EP 906761	B1	20040714		
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	US 6261565	B1	20010717	US 1998-162038	19980928
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	EP 1466609	A1	20041013	EP 2004-15530	19981002
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	PT 906761	T	20041130	PT 1998-308060	19981002
	ES 2224337	T3	20050301	ES 1998-308060	19981002
	HK 1016879	A1	20050422	HK 1999-101886	19990427
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	US 1998-162038	P	19980928		
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	US 1997-868629	A2	19970604		
	US 1998-35588	A2	19980305		
	US 1998-162038P	P	19980928		
	EP 1998-308060	A3	19981002		

L9 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1994:430348 CAPLUS
DN 121:30348
TI Alfalfa saponins and sapogenins: isolation and quantification in two different cultivars
AU Tava, A.; Oleszek, W.; Jurzysta, M.; Berardo, N.; Odoardi, M.
CS Ist. Sper. Colture Foraggere, Lodi, 20075, Italy
SO Phytochemical Analysis (1993), 4(6), 269-74
CODEN: PHANEL; ISSN: 0958-0344
DT Journal
LA English

L9 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1992:252081 CAPLUS
DN 116:252081
TI Triterpenoid saponins from Medicago hispida
AU Mahato, Shashi B.
CS Indian Inst. Chem. Biol., Calcutta, 700 032, India
SO Phytochemistry (1991), 30(10), 3389-93
CODEN: PYTCAS; ISSN: 0031-9422
DT Journal
LA English
OS CASREACT 116:252081

L9 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1989:474802 CAPLUS
DN 111:74802
TI New triterpenoid sapogenols from Abrus cantoniensis (I)
AU Takeshita, Takashi; Hamada, Shuichi; Nohara, Toshihiro
CS Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan
SO Chemical & Pharmaceutical Bulletin (1989), 37(3), 846-8
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English
OS CASREACT 111:74802

L9 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1988:109560 CAPLUS
DN 108:109560
TI Triterpene saponins of Trigonella monspeliaca L
AU Oleszek, Wieslaw; Jurzysta, Marian; Burda, Stanislaw; Ploszynski, Michal
CS Dep. Biochem., Inst. Uprawy, Nawozenia Glebozn., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1987), 56(2), 281-5
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English

L9 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1988:91707 CAPLUS
DN 108:91707
TI Studies on Medicago lupulina saponins. 5. Isolation and chemical characterization of blossom saponins

AU Jurzysta, Marian; Burda, Stanislaw; Oleszek, Wieslaw; Gorski, Piotr; Ploszynski, Michal
CS Dep. Biochem., Inst. Uprawy, Nawozenia Glebozn., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1987), 56(1), 101-6
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English

L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1988:91706 CAPLUS
DN 108:91706
TI Studies on Medicago lupulina saponins. 6. Some chemical characteristics and biological activity of root saponins
AU Oleszek, Wieslaw; Jurzysta, Marian; Gorski, Piotr; Burda, Stanislaw; Ploszynski, Michal
CS Dep. Biochem., Inst. Uprawy, Nawozenia Glebozn., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1987), 56(1), 119-26
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1987:614824 CAPLUS
DN 107:214824
TI Structure of soyasapogenol B1
AU Ireland, Philip A.; Dziedzic, Stanley Z.; Drew, Michael G. B.; Forsyth, George A.
CS Dep. Food Sci. Technol., Univ. Reading, Whiteknights/Reading, RG6 2AP, UK
SO Journal of Agricultural and Food Chemistry (1987), 35(6), 971-3
CODEN: JAFCAU; ISSN: 0021-8561
DT Journal
LA English

L9 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1987:65901 CAPLUS
DN 106:65901
TI Soyasapogenols - separation, analysis and interconversions
AU Price, Keith R.; Fenwick, G. Roger; Jurzysta, Marian
CS Inst. Food Res., AFRC, Norwich, NR4 7UA, UK
SO Journal of the Science of Food and Agriculture (1986), 37(10), 1027-34
CODEN: JSFAAE; ISSN: 0022-5142
DT Journal
LA English

L9 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1987:30074 CAPLUS
DN 106:30074
TI Isolation, chemical characterization and biological activity of red clover (Trifolium pratense L.) root saponins
AU Oleszek, Wieslaw; Jurzysta, Marian
CS Dep. Biochem., Inst. Soil Sci. Plant Cultiv., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1986), 55(2), 247-52
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1986:622710 CAPLUS
DN 105:222710
TI Effect of hydrolysis on sapogenin release in soy
AU Ireland, Philip A.; Dziedzic, Stanley Z.
CS Dep. Food Sci., Univ. Reading, Reading, RG6 2AP, UK
SO Journal of Agricultural and Food Chemistry (1986), 34(6), 1037-41
CODEN: JAFCAU; ISSN: 0021-8561
DT Journal
LA English

L9 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1986:549761 CAPLUS
DN 105:149761
TI Isolation, chemical characterization and biological activity of alfalfa (Medicago media Pers.) root saponins
AU Oleszek, Wieslaw; Jurzysta, Marian
CS Dep. Biolchem. Physiol. Crop Plants, Inst. Soil Sci. Plant Cultiv., Pulawy, 24-100, Pol.

SO Acta Societatis Botanicorum Poloniae (1986), 55(1), 23-33
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English

L9 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1985:468278 CAPLUS
DN 103:68278
TI Studies on Medicago lupulina saponins. II. Isolation, chemical characterization, and biological activity of saponins from M. lupulina tops
AU Gorski, Piotr M.; Jurzysta, Marian; Burda, Stanislaw; Oleszek, Wieslaw A.; Ploszynski, Michal
CS Dep. Biochem. Physiol. Crop Plants, Inst. Soil Sci. Plant Cultiv., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1984), 53(4), 527-33
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English

L9 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1985:468277 CAPLUS
DN 103:68277
TI Studies on Medicago lupulina saponins. I. Isolation and identification of sapogenins from M. lupulina tops
AU Gorski, Piotr M.; Jurzysta, Marian; Burda, Stanislaw; Oleszek, Wieslaw A.; Ploszynski, Michal
CS Dep. Biochem. Physiol. Crop Plants, Inst. Soil Sci. Plant Cultiv., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1984), 53(4), 515-25
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English

=> d bib abs hitstr 1-15 19

L9 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:519341 CAPLUS
DN 135:91861
TI Method of preparing and using isoflavones
IN Empie, Mark; Gugger, Eric
PA Archer Daniels Midland Co., USA
SO U.S., 8 pp., Cont.-in-part of U.S. 6,033,714.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6261565	B1	20010717	US 1998-162038	19980928
US 5702752	A	19971230	US 1996-614545	19960313
IL 130611	A	20010430	IL 1997-130611	19970310
US 5792503	A	19980811	US 1997-868629	19970604
US 6033714	A	20000307	US 1998-35588	19980305
AU 9887879	A	19990422	AU 1998-87879	19981001
AU 748832	B2	20020613		
ZA 9808962	A	19990913	ZA 1998-8962	19981001
NZ 332131	A	20010629	NZ 1998-332131	19981001
CA 2249501	C	20030114	CA 1998-2249501	19981001
EP 906761	A2	19990407	EP 1998-308060	19981002
EP 906761	A3	19990519		
EP 906761	B1	20040714		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 11221048	A	19990817	JP 1998-296187	19981002
MX 9808146	A	20001031	MX 1998-8146	19981002
AT 270894	T	20040715	AT 1998-308060	19981002
EP 1466609	A1	20041013	EP 2004-15530	19981002
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PT 906761	T	20041130	PT 1998-308060	19981002
ES 2224337	T3	20050301	ES 1998-308060	19981002
TW 241893	B	20051021	TW 1998-87116374	19990114
HK 1016879	A1	20050422	HK 1999-101886	19990427

	US 6391308	B1	20020521	US 2000-615239	20000713
	US 6391309	B1	20020521	US 2000-615240	20000713
	US 6391310	B1	20020521	US 2000-616205	20000713
	US 6395279	B1	20020528	US 2000-616150	20000713
	US 6399072	B1	20020604	US 2000-615152	20000713
	US 2002168433	A1	20021114	US 2002-136103	20020501
	US 2002187211	A1	20021212	US 2002-136158	20020501
	US 6509381	B2	20030121		
	US 2003003168	A1	20030102	US 2002-137490	20020501
	US 6900240	B2	20050531		
	US 6518319	B1	20030211	US 2002-136150	20020501
	US 2003064938	A1	20030403	US 2002-136079	20020501
PRAI	US 1996-614545	A3	19960313		
	US 1997-868629	A2	19970604		
	US 1997-60549P	P	19971002		
	US 1998-35588	A2	19980305		
	IL 1997-120409	A3	19970310		
	US 1998-162038	A	19980928		
	US 1998-162038P	P	19980928		
	EP 1998-308060	A3	19981002		
	US 2000-615152	A3	20000713		
	US 2000-615239	A3	20000713		
	US 2000-615240	A3	20000713		
	US 2000-616150	A3	20000713		
	US 2000-616205	A3	20000713		

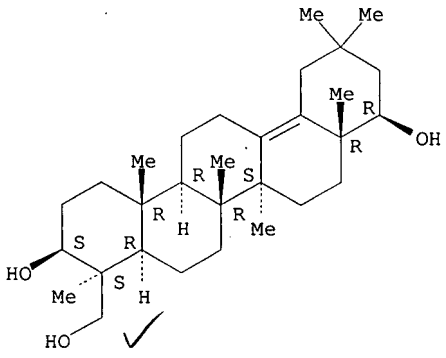
AB The invention provides for a refinement of phytochems. in order to tailor the refined end product to particular human dietary needs. More particularly, a composition is prepared by extracting phytochems. from plant matter. This composition is enriched preferably in two or more isoflavones, lignans, saponins, catechins and phenolic acids. Soy is the preferred source of these chems.; however, other plants may also be used, such as red clover, kudzu, flax, and cocoa. The composition is a dietary supplement for treatment of various cancers, pre-and-post-menstrual syndromes, and various other disorders.

IT 104033-83-2, Soyasapogenol F
RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(isoflavone preparing method and use)

RN 104033-83-2 CAPLUS

CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1999:241997 CAPLUS
DN 130:287063
TI Method of preparing and using phytochemicals
IN Empie, Mark; Gugger, Eric
PA Archer Daniels Midland Company, USA
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 906761	A2	19990407	EP 1998-308060	19981002
	EP 906761	A3	19990519		
	EP 906761	B1	20040714		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6261565	B1	20010717	US 1998-162038	19980928
	ZA 9808962	A	19990913	ZA 1998-8962	19981001
	EP 1466609	A1	20041013	EP 2004-15530	19981002
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	PT 906761	T	20041130	PT 1998-308060	19981002
	ES 2224337	T3	20050301	ES 1998-308060	19981002
	HK 1016879	A1	20050422	HK 1999-101886	19990427
PRAI	US 1997-60549P	P	19971002		
	US 1998-162038	P	19980928		
	US 1996-614545	A3	19960313		
	US 1997-868629	A2	19970604		
	US 1998-35588	A2	19980305		
	US 1998-162038P	P	19980928		
	EP 1998-308060	A3	19981002		

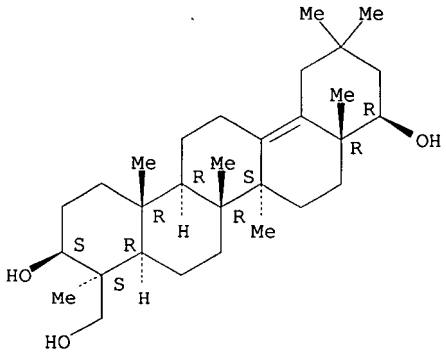
AB A composition is prepared by extracting phytochems. from plant matter. This composition is enriched preferably in isoflavones, lignans, saponins, catechins and phenolic acids. Soy is the preferred source of these chems.; however, other plants may also be used, such as red clover, kudzu, flax, and cocoa. The composition is a dietary supplement for treatment of various cancers, pre- and post-menstrual syndromes, and various other disorders.

IT 104033-83-2, Soyasapogenol F
RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(method of preparing and dietary use of phytochems.)

RN 104033-83-2 CAPLUS

CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1994:430348 CAPLUS

DN 121:30348

TI Alfalfa saponins and sapogenins: isolation and quantification in two different cultivars

AU Tava, A.; Oleszek, W.; Jurzysta, M.; Berardo, N.; Odoardi, M.

CS Ist. Sper. Colture Foraggere, Lodi, 20075, Italy

SO Phytochemical Analysis (1993), 4(6), 269-74
CODEN: PHANEL; ISSN: 0958-0344

DT Journal

LA English

AB The chemical characterization of the saponins and sapogenins isolated from roots and aerial parts of two alfalfa cultivars with differing saponin content is reported. A procedure for the extraction and quantification of saponins is described, and the identification of the major components of the saponin mixture has been performed using thin layer chromatog. and high performance liquid chromatog. Characterization, using gas chromatog. (GC) and GC/mass spectral anal., of sapogenins released following acid hydrolysis allowed the identification of medicagenic acid, hederagenin,

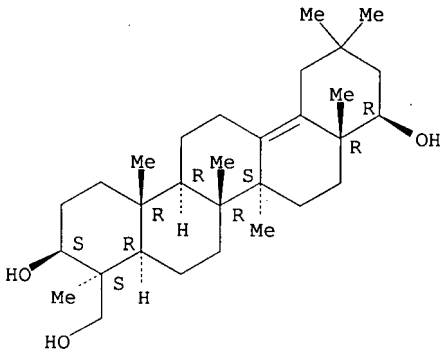
soyasapogenols B, C, D, E and F as the major compds., together with oleanolic acid. Quant. anal. of the sapogenins in aerial parts and roots of the two cultivars is reported and discussed.

IT 104033-83-2
RL: ANT (Analyte); ANST (Analytical study)
(determination of, in alfalfa by chromatog. and mass spectrometry)

RN 104033-83-2 CAPLUS

CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1992:252081 CAPLUS

DN 116:252081

TI Triterpenoid saponins from Medicago hispida

AU Mahato, Shashi B.

CS Indian Inst. Chem. Biol., Calcutta, 700 032, India

SO Phytochemistry (1991), 30(10), 3389-93
CODEN: PYTCAS; ISSN: 0031-9422

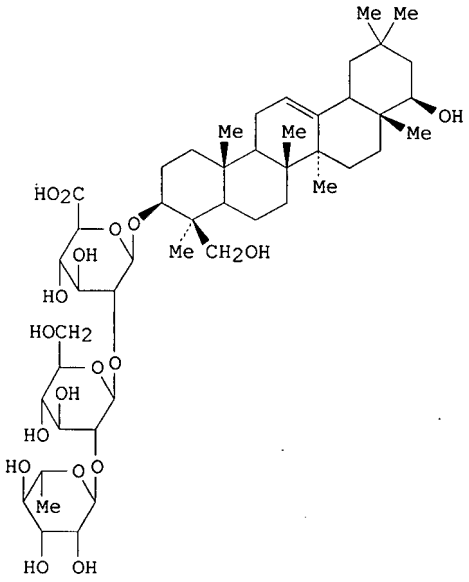
DT Journal

LA English

OS CASREACT 116:252081

GI

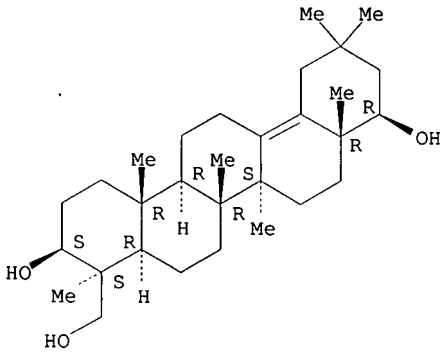
on IDS



I

AB Soyasaponin III has been characterized and the structure of a new triterpenoid saponin, hispidacin (I), has been elucidated by a combination of fast-atom bombardment mass spectrometry, 13C-NMR spectroscopy, and some chemical transformations. Mechanism of transformation of soyasapogenol B to soyasapogenols D and F has also been rationalized.
IT 104033-83-2, Soyasapogenol F
RL: BIOL (Biological study)
(from Medicago hispida, transformation mechanisms in relation to)
RN 104033-83-2 CAPLUS
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

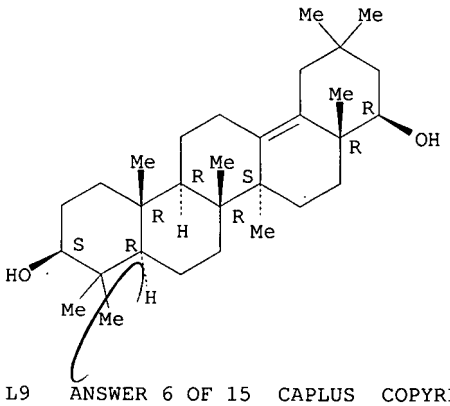


L9 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1989:474802 CAPLUS
DN 111:74802
TI New triterpenoid sapogenols from Abrus cantoniensis (I)
AU Takeshita, Takashi; Hamada, Shuichi; Nohara, Toshihiro
CS Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan
SO Chemical & Pharmaceutical Bulletin (1989), 37(3), 846-8
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English
OS CASREACT 111:74802
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

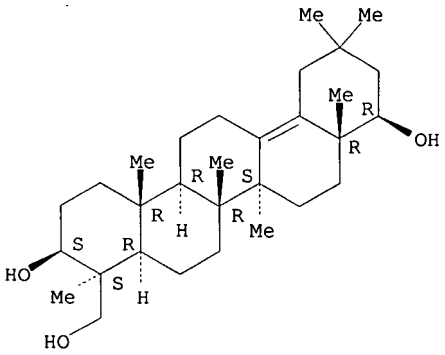
AB Five new triterpenoid sapogenols, designated abrisapogenols B(I), E(II), D(III), F(IV), and G(V), were obtained from the hydrolyzate of the crude saponin fraction of Abri Herba, the whole plants of Abrus cantoniensis (Leguminosae). Their structures were determined by spectroscopic and x-ray anal.
IT 121994-09-0, Abrisapogenol G
RL: BIOL (Biological study)
(from Abrus cantoniensis hydrolyzates, isolation and structure of)
RN 121994-09-0 CAPLUS
CN Olean-13(18)-ene-3,22-diol, (3β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1988:109560 CAPLUS
DN 108:109560
TI Triterpene saponins of Trigonella monspeliaca L
AU Oleszek, Wieslaw; Jurzysta, Marian; Burda, Stanislaw; Ploszynski, Michal
CS Dep. Biochem., Inst. Uprawy, Nawozenia Glebozn., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1987), 56(2), 281-5
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English
AB The triterpene saponin fraction, isolated by EtOH extraction from T. monspeliaca tops was analyzed by 2-dimensional TLC and mass spectrometry. Ten saponosides were obtained, 3 of which were medicagenic acid glycosides and the other 7 were soyasapogenol glucosides. Acid hydrolysis of the saponin fraction gave medicagenic acid, soyasapogenol B and its artifacts soyasapogenol C, D, and F.
IT 104033-83-2, Soyasapogenol F
RL: BIOL (Biological study)
(from acid hydrolysis of saponins of Trigonella monspeliaca)
RN 104033-83-2 CAPLUS
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1988:91707 CAPLUS
DN 108:91707
TI Studies on Medicago lupulina saponins. 5. Isolation and chemical characterization of blossom saponins
AU Jurzysta, Marian; Burda, Stanislaw; Oleszek, Wieslaw; Gorski, Piotr; Ploszynski, Michal
CS Dep. Biochem., Inst. Uprawy, Nawozenia Glebozn., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1987), 56(1), 101-6
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English
AB From Medicago lupulina flowers, 2 saponin fractions were isolated. The crystalline saponin fraction, readily precipitable from aqueous solns., was a mixture of 3 glycosides of soyasapogenol B. Their acid hydrolysis yielded

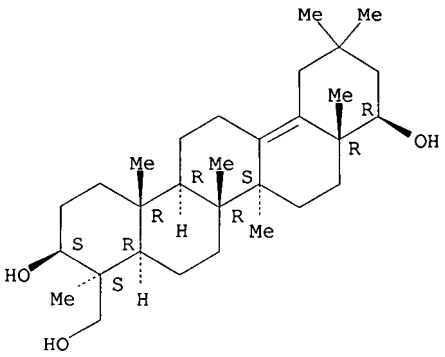
soyasapogenol B and its 3 artifacts: soyasapogenols C, D, and F. The 2nd fraction, obtained by precipitation with cholesterol, consisted of 7 hemolytically active medicagenic acid glucosides. Their hydrolysis gave medicagenic acid and glucose, xylose, rhamnose, and traces of glucuronic acid.

IT 104033-83-2, Soyasapogenol F
RL: BIOL (Biological study)
(artifact from Medicago lupulina)

RN 104033-83-2 CAPLUS

CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1988:91706 CAPLUS

DN 108:91706

TI Studies on Medicago lupulina saponins. 6. Some chemical characteristics and biological activity of root saponins

AU Oleszek, Wieslaw; Jurzysta, Marian; Gorski, Piotr; Burda, Stanislaw; Ploszynski, Michal

CS Dep. Biochem., Inst. Uprawy, Nawozenia Glebozn., Pulawy, 24-100, Pol.

SO Acta Societatis Botanicorum Poloniae (1987), 56(1), 119-26
CODEN: ASBNA2; ISSN: 0001-6977

DT Journal

LA English

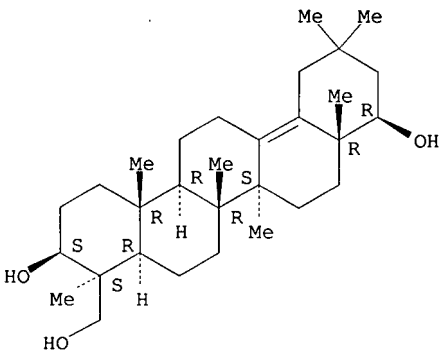
AB The purified fraction of Medicago lupulina root saponins consists of 14 compds., 2 of which are medicagenic acid glycosides as indicated by 2-dimensional thin-layer chromatog. Its hydrolysis gave medicagenic acid, hederagenin, and soyasapogenols B, C, D, E, and F. The hemolytic, fungicidal, and allelopathic activities of M. lupulina were also studied.

IT 104033-83-2, Soyasapogenol F
RL: BIOL (Biological study)
(from Medicago lupulina)

RN 104033-83-2 CAPLUS

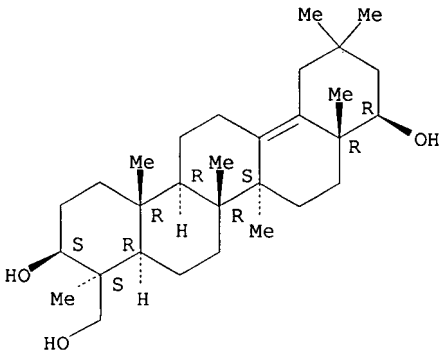
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



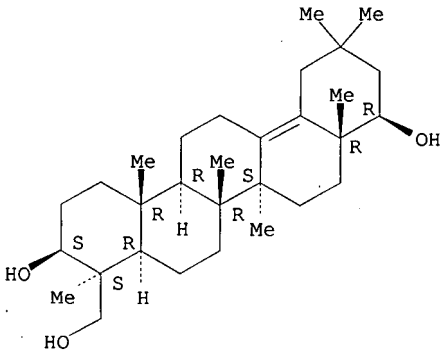
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1987:614824 CAPLUS
DN 107:214824
TI Structure of soyasapogenol B1
AU Ireland, Philip A.; Dziedzic, Stanley Z.; Drew, Michael G. B.; Forsyth, George A.
CS Dep. Food Sci. Technol., Univ. Reading, Whiteknights/Reading, RG6 2AP, UK
SO Journal of Agricultural and Food Chemistry (1987), 35(6), 971-3
CODEN: JAFCAU; ISSN: 0021-8561
DT Journal
LA English
AB The structure of soyasapogenol B1, previously shown to be an artifact of hydrolysis of soybean saponins, was elucidated by x-ray crystallog. and confirmed by mass spectrometry as 3β,22β,24-trihydroxyolean-13(18)-ene.
IT 104033-83-2, Soyasapogenol B1
RL: BIOL (Biological study)
(isolation and structure determination of)
RN 104033-83-2 CAPLUS
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



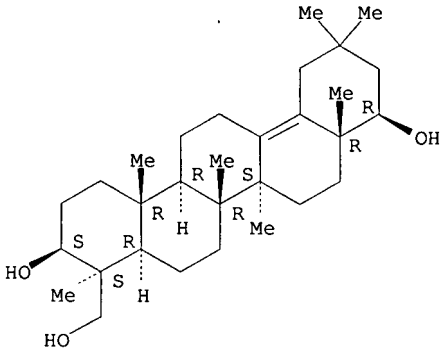
L9 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1987:65901 CAPLUS
DN 106:65901
TI Soyasapogenols - separation, analysis and interconversions
AU Price, Keith R.; Fenwick, G. Roger; Jurzysta, Marian
CS Inst. Food Res., AFRC, Norwich, NR4 7UA, UK
SO Journal of the Science of Food and Agriculture (1986), 37(10), 1027-34
CODEN: JSFAAE; ISSN: 0022-5142
DT Journal
LA English
AB The hydrolysis products of soyasaponins in legumes and of pure stds. have been examined using TLC, gas chromatog., and gas chromatog.-mass spectrometry. Interrelationships between eight soyasapogenols, produced under conditions of aqueous or nonaq. acid hydrolysis, have been established. The significance of the work to the anal. of soyasaponins is discussed.
IT 104033-83-2, Soyasapogenol F
RL: PROC (Process)
(separation of, from legumes, by TLC and gas chromatog. and gas chromatog.-mass spectrometry)
RN 104033-83-2 CAPLUS
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1987:30074 CAPLUS
DN 106:30074
TI Isolation, chemical characterization and biological activity of red clover (Trifolium pratense L.) root saponins
AU Oleszek, Wieslaw; Jurzysta, Marian
CS Dep. Biochem., Inst. Soil Sci. Plant Cultiv., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1986), 55(2), 247-52
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English
AB Crystalline saponins, isolated from red clover roots, are a mixture of glycosides with no hemolytic or fungistatic activity. Acid hydrolysis of the saponins gave soyasapogenols B, C, D, E, and F and the sugar components, rhamnose, xylose, arabinose, glucose, and glucuronic acid. Aqueous suspensions of the saponins did not affect winter wheat seedling growth.
IT 104033-83-2, Soyasapogenol F
RL: BIOL (Biological study)
(in saponins of red clover roots)
RN 104033-83-2 CAPLUS
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

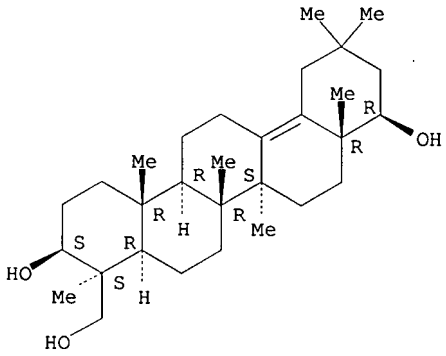


L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1986:622710 CAPLUS
DN 105:222710
TI Effect of hydrolysis on sapogenin release in soy
AU Ireland, Philip A.; Dziedzic, Stanley Z.
CS Dep. Food Sci., Univ. Reading, Reading, RG6 2AP, UK
SO Journal of Agricultural and Food Chemistry (1986), 34(6), 1037-41
CODEN: JAFCAU; ISSN: 0021-8561
DT Journal
LA English
AB The effect of various hydrolysis procedures on the sapogenin yield and profile of soya saponins was investigated. Hydrolysis for 3 h with 3% H2SO4 in an anhydrous methanolic environment gave the highest yield of total sapogenins and also only liberated soyasapogenols A and B. The results

show that soyasapogenols B1, C, D, and E are artifacts of the hydrolysis procedure.

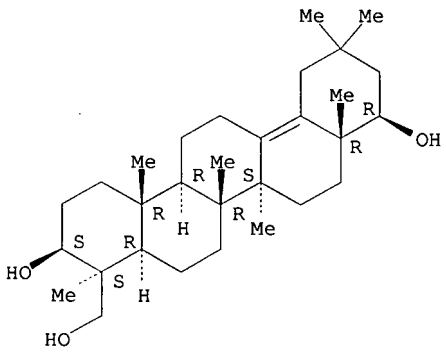
IT 104033-83-2
RL: BIOL (Biological study)
(as artifact, in hydrolysis of soybean)
RN 104033-83-2 CAPLUS
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



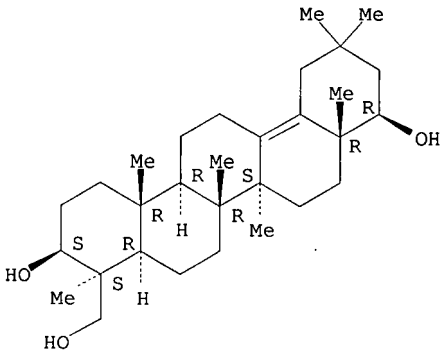
L9 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1986:549761 CAPLUS
DN 105:149761
TI Isolation, chemical characterization and biological activity of alfalfa (Medicago media Pers.) root saponins
AU Oleszek, Wieslaw; Jurzysta, Marian
CS Dep. Biolchem. Physiol. Crop Plants, Inst. Soil Sci. Plant Cultiv., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1986), 55(1), 23-33
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English
AB Saponins were extracted from alfalfa roots and subjected to acid (H2SO4) hydrolysis to give aglycons and sugars. The aglycon fraction of cholesterol-precipitable saponins contains medicagenic acid (I) and the sugar fraction is a mixture of glucose, arabinose, xylose, and rhamnose. The non-precipitable saponins have hederagenin and soyasapogenols A, B, C, D, E, and F as aglycons and glucose, arabinose, xylose, galactose, and glucuronic acid in the sugar fraction. The I glycosides caused red blood cell lysis (hemolytic index 3000), completely inhibited Trichoderma viride growth, and, at 100 ppm, retarded wheat seedling growth.
IT 104033-83-2
RL: BIOL (Biological study)
(of saponins from alfalfa roots)
RN 104033-83-2 CAPLUS
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

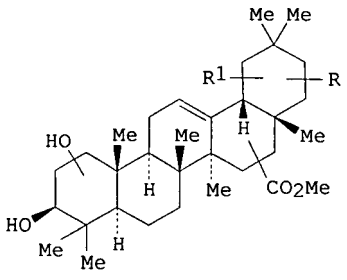


L9 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1985:468278 CAPLUS
DN 103:68278
TI Studies on Medicago lupulina saponins. II. Isolation, chemical characterization, and biological activity of saponins from M. lupulina tops
AU Gorski, Piotr M.; Jurzysta, Marian; Burda, Stanislaw; Oleszek, Wieslaw A.; Ploszynski, Michal
CS Dep. Biochem. Physiol. Crop Plants, Inst. Soil Sci. Plant Cultiv., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1984), 53(4), 527-33
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English
AB Two saponin fractions (Ma, Ss) were isolated from M. lupulina tops and separated into 5 and 11 components, resp., by TLC in 7:2:2 AcOEt-AcOH-H2O and 4:1:1 BuOH-AcOH-H2O solvent systems, and subjected to acid hydrolysis to analyze their aglycon and sugar composition Thus, in the acid hydrolyzates of Ma saponins medicagenic acid as well as rhaminose, xylose, arabinose, and glucuronic acid, whereas in those of Ss saponins soyasapogenols B, C, D, E, F, N, and An as well as the same sugars + glucose and galactose were found. The Ma fraction (but not the Ss) was fungistatic, hemolytic, and toxic to fish.
IT 104033-83-2
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of Medicago lupulina)
RN 104033-83-2 CAPLUS
CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1985:468277 CAPLUS
DN 103:68277
TI Studies on Medicago lupulina saponins. I. Isolation and identification of sapogenins from M. lupulina tops
AU Gorski, Piotr M.; Jurzysta, Marian; Burda, Stanislaw; Oleszek, Wieslaw A.; Ploszynski, Michal
CS Dep. Biochem. Physiol. Crop Plants, Inst. Soil Sci. Plant Cultiv., Pulawy, 24-100, Pol.
SO Acta Societatis Botanicorum Poloniae (1984), 53(4), 515-25
CODEN: ASBNA2; ISSN: 0001-6977
DT Journal
LA English
GI



I, R=H, R^1=OH
II, RR^1=O

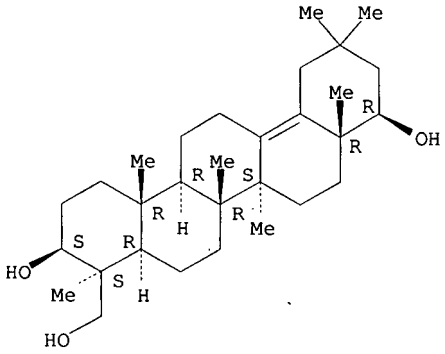
AB Crude saponins were isolated from M. lupulina tops and subjected to acid hydrolysis the 8 aglycons found were separated by TLC in 7:2:1 petroleum ether-CHCl3-AcOH and 92:8 C6H6-EtOH solvent systems and investigated by IR and mass spectrometry. The aglycons were identified as soyasapogenols B, C, D, E, F, and medicagenic acid. The 2 new aglycons, An (I) and N (II), were identified as pentacyclic triterpenes. The CO2Me groups in I and II are probably bound to C17 and OH groups to C23. Also, the 3rd OH group is in the C 21/22 position in I and the keto group is attached to C 21/22 in II.

IT 104033-83-2
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of Medicago lupulina)

RN 104033-83-2 CAPLUS

CN Olean-13(18)-ene-3,22,23-triol, (3β,4β,22β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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FULL ESTIMATED COST	99.57	447.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-11.70	-11.70

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L10   STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10   STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l10 sss sam
SAMPLE SEARCH INITIATED 09:12:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   241 TO ITERATE

100.0% PROCESSED   241 ITERATIONS   2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 3889 TO   5751
PROJECTED ANSWERS: 2 TO   124

L11   2 SEA SSS SAM L10

=> s l10 full
FULL SEARCH INITIATED 09:12:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   4594 TO ITERATE

100.0% PROCESSED   4594 ITERATIONS   32 ANSWERS
SEARCH TIME: 00.00.01

L12   32 SEA SSS FUL L10

=> d his

     (FILE 'HOME' ENTERED AT 09:02:30 ON 02 APR 2007)

     FILE 'REGISTRY' ENTERED AT 09:02:47 ON 02 APR 2007
L1   STRUCTURE UPLOADED
L2   14 S L1 SSS SAM
L3   STRUCTURE UPLOADED
L4   2 S L3 SSS SAM
L5   32 S L3 FULL
L6   STRUCTURE UPLOADED
L7   2 S L6 FULL

     FILE 'CAPLUS' ENTERED AT 09:08:10 ON 02 APR 2007
L8   75 S L5
L9   15 S L7

     FILE 'REGISTRY' ENTERED AT 09:11:54 ON 02 APR 2007
L10   STRUCTURE UPLOADED
L11   2 S L10 SSS SAM
L12   32 S L10 FULL